



SUBSTITUTE SPECIFICATION—REDLINED VERSION SHOWING CHANGES

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~~PROCESSING AND GENERATION OF CONTROL SIGNALS
FOR REAL TIME CONTROL OF MUSIC SIGNAL
PROCESSING, MIXING,~~

**PERFORMANCE ENVIRONMENTS SUPPORTING
INTERACTIONS AMONG PERFORMERS AND
SELF-ORGANIZING PROCESSES**

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RELATED CASES CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U. S. application Ser. No. 09/812,400,
filed March 19, 2001, which is a divisional continuation of U.S. application Ser. No. number
09/313,533, filed May 15, 1999, now U.S. patent No. 6,610,917, issued August 26, 2003, which
claims benefit of priority of in turn based on U.S. pProvisional application Ser. No. Serial
Number 60/085,713, filed May 15, 1998.

BACKGROUND OF THE INVENTION

1. Field of Invention

[0002] This invention relates to musical instrument performance systems and environments, and in particular to the combination of novel instrument entities built from synergistic arrangements of traditional and novel instrument elements, and the interconnection of said instrument entities utilizing generalized interface entities to signal routing, processing, and synthesis entities built from synergistic combinations of traditional and novel architectures, processes, and methodologies. The systems and methods herein are intended to make possible a

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[Bormans] *Bormans, Jan "MPEG-4 systems need specialized CPUs", Electronic Engineering Times, Jan. 25, 1999, and 9.*

[Visintin] *Visintin, A (ed.), Models of Hysteresis, Longman Scientific & Technical, Harlow, England, 1993.*

CLAIMS

1. ~~A system for the generation of real time control signals based on at least one incoming control signal, the system comprising at least one control signal generator of one of the following types:~~

~~a low frequency oscillator~~

~~a transient generator~~

~~wherein the at least one incoming control signal is used to control events and parameters associated with the at least one control signal generator.~~

2. ~~A method for the generation of real time control signals based on at least one incoming control signal, the system utilizing at least one control signal generator of one of the following types:~~

~~a low frequency oscillator~~

~~a transient generator wherein the at least one incoming control signal is used to control events and parameters associated with the at least one control signal generator.~~